

Claims

[1] A resin composition (D), characterized by containing from 1 to 99 parts by weight of an aliphatic polyester resin (A), from 99 to 1 parts by weight of a polyolefin resin (B) (provided that the sum of (A) and (B) is 100 parts by weight), and from 0.1 to 100 parts by weight of a modified polyolefin resin (C) to 100 parts by weight of the sum of (A) and (B).

[2] The resin composition (D), characterized in that the modified polyolefin resin (C) contains at least one selected from the group consisting of (C-1), (C-2) and (C-3) in an amount of from 0.1 to 100 parts by weight;

(C-1) a copolymer having a structure that a propylene-based polyolefin segment (a) and a segment (b) containing lactic acid as a constituent are bonded in a block state and/or a graft state through a covalent bond, wherein a number average molecular weight of the propylene-based polyolefin segment (b) is from 1,000 to 100,000, a number average molecular weight of the segment (a) containing lactic acid as a constituent is from 1,000 to 200,000, and a weight composition of the propylene-based polyolefin segment (a) and the segment (b) containing lactic acid as a constituent is from 10/90 to 90/10,

(C-2) a copolymer having a structure that a segment containing an acrylic unit as a constituent and an ethylene-based polyolefin segment are bonded in a block state and/or a graft state and/or a random state through a covalent bond, and

(C-3) a copolymer having a structure that a segment containing an acrylic unit as a constituent and a propylene-based polyolefin segment are bonded in a block state and/or a graft state and/or a random state through a covalent bond.

5 [3] A modified polyolefin resin (C-1) comprising a copolymer having a structure that a propylene-based polyolefin segment (a) and a segment (b) containing lactic acid as a constituent are bonded in a block state and/or a graft state through a covalent bond, wherein a number average molecular weight of
10 the propylene-based polyolefin segment (b) is from 1,000 to 100,000, a number average molecular weight of the segment (a) containing lactic acid as a constituent is from 1,000 to 200,000, and a weight composition of the propylene-based polyolefin segment (a) and the segment (b) containing lactic acid as a
15 constituent is from 10/90 to 90/10.

[4] A method of producing the modified polyolefin resin (C-1) according to claim 1 to 3, characterized in that a monomer containing lactide or lactic acid is polymerized with a polyolefin resin in the presence of a modified polyolefin resin
20 having a hydroxyl group-containing vinyl monomer grafted thereon, or a polymer of a vinyl monomer and a monomer containing lactide or lactic acid and a polyolefin are reacted.

[5] The resin composition (D) according to claim 2, wherein the modified polyolefin resin (C-2) is a copolymer having a
25 segment containing an acrylic acid unit as a constituent and

an ethylene-based polyolefin block.

[6] The resin composition (D) according to claim 2, wherein the modified polyolefin resin (C-2) is a copolymer having a segment containing a methyl methacrylate unit as a constituent
5 and an ethylene-based polyolefin block.

[7] The resin composition (D) according to claim 2, wherein the modified polyolefin resin (C-3) is a copolymer having a segment containing an acrylic acid unit as a constituent and a propylene-based polyolefin block.

10 [8] The resin composition (D) according to claim 2, wherein the modified polyolefin resin (C-3) is a copolymer having a segment containing a methyl methacrylate unit as a constituent, and a propylene-based polyolefin block.

[9] A resin composition (D), characterized by obtaining from
15 a resin composition containing from 40 to 99 parts by weight of an aliphatic polyester resin (A), from 60 to 1 parts by weight of a polyolefin resin (B) (provided that the sum of (A) and (B) is 100 parts by weight), and as a modified polyolefin resin (C), from 0.1 to 50 parts by weight of at least one selected
20 from the group consisting of (C-1), (C-2) and (C-3) to 100 parts by weight of the sum of (A) and (B), and having a softening temperature of 60°C or higher.

[10] A resin composition (D), characterized by obtaining from a resin composition containing from 40 to 99 parts by weight
25 of an aliphatic polyester resin (A), from 60 to 1 parts by weight

of a polyolefin resin (B) (provided that the sum of (A) and (B) is 100 parts by weight), and as a modified polyolefin resin (C), from 0.1 to 50 parts by weight of at least one selected from the group consisting of (C-1), (C-2) and (C-3) to 100 parts by weight of the sum of (A) and (B), and having Izod impact strength of 100 J/m or more.

[11] An automobile material part comprising the resin composition (D) according to claim 1.

(12) A home electric appliance material part comprising the resin composition (D) according to claim 1.

(13) An electrical/electronic material part comprising the resin composition (D) according to claim 1.